

Frank H. Longyear

Sandia Starts Use of Tonopah, Nev., Range



published every other friday for the employees of sandia corporation, contractor to the atomic energy commission

Albuquerque, New Mexico

February 21, 1957

F. H. Longyear, **Accidents Hurt--Are Costly** Production Supt., To Retire Mar. 1 R. P. Lutz Tells Supervisors Frank H. Longyear, Superin-



OUTLINING SAFETY MEASURES to supervisors of the 2000 organization recently, R. P. Lutz, Vice-President of Operations, reviews the safety record and makes pertinent suggestions.

engineering work with some of the nation's major industries. A graduate of Purdue University in 1914 with a Bachelor of Science degree in Mechanical Engineering. his first job was in the stock room of a Detroit manufacturing firm. A few years later he was plant

In Signal Corps

superintendent.

"Soon after I started my engineering career," Mr. Longyear recalls, "the nation was preparing for war." When the United States became involved in World War I he entered military service in the Signal Corps and was assigned to the air corps of that branch.

"There were 10,000 men and 10 airplanes at the Texas field where I was assigned," he tells.

After the war, Mr. Longyear worked in midwest industries in different engineering positions. Most of his work throughout the years, however, has been in weapons fields. Artillery shells, incendiary bombs, napalm, Very pistols, gas masks and the like have all been known by him.

During the building of the River Rouge plant of Ford Motor Company he had responsibility for 16,000 men on the building project.

To Sandia in 1948

Mar. 1, 1948, Mr. Longyear started work at Sandia in charge of what was then known as the "Road Department." In 1949 when Sandia Corporation was formed he became Superintendent of the Model Shops, 2100, and has headed that organization and been Superintendent of Production since then.

Mr. and Mrs. Longyear make their home at 1600 Cornell Drive, NE. They have a son, Donald, who is an advertising executive in De-

After retirement Mr. Longyear says he is going to rest for a time and then he and Mrs. Longyear plan to travel through Canada

New Enrollment Period Planned for Hospitalization - Surgical Insurance

All Sandia Corporation employees not presently enrolled in the Group Hopitalization and Surgical Benefit Plan will be given the opportunity to do so during a special enrollment period Mar. 15 through April 10.

Results of a poll of all present Health Plan members will be available at that time. Members were asked to make known their choice of (1) continuing the present plan, (2) a modified plan with higher premiums and greater benefits or (3) a comprehensive plan that would pay about 80 per cent of most medical expenses.

The three plans were announced and explained in the last issue of the Sandia Lab News. Whichever

plan the present members select will go into effect May 1.

All employees not currently participating in the hospitalization plan will be given the opportunity to learn the details of the plan selected before the enrollment pe-

Caravan Club Meets

Regular monthly business meeting of the Amateur Radio Caravan Club of New Mexico is scheduled Wednesday, Feb. 27. The meeting will be held at 8 p.m. in the Radiation Therapy Lab of Lovelace Clinic, Keith Nelson, 1442, secreports

Editor's Note

R. P. Lutz, Vice President, Operations, 2000, discussed recently the safety record of the 2000 Organization with its supervisors. His comments on safety measures and programs may be applied to all Corporation personnel.

The best safety record held by any prime contractor to the Atomic Energy Commission is approximately five million accident-free man hours. This record is held by both the DuPont plant at Savannah River, Ga., and General Electric at Hanford, Wash. The best record of Western Electric is held by the Greensboro Plant in North Carolina-no lost time since April, 1952.

Sandia Corporation's record is good, but not good enough.

Are you willing to admit that we cannot be as good as any of these? I am not.

What did the 1956 accidents cost our organization where 44 per cent of all Corporation employees had 86 per cent of the accidents?

We lost 492 working days or two man years. This amounts to \$33,-000 for wages paid for time not worked and for medical expenses for the injured people.

According to experts the amount of direct time lost in the 2000 organization represents about \$160,-000 to the Corporation when considering time lost by other employees out of curiosity, out of sympathy, in assistance to the injured employees and in time lost in discussing the accident. Time also would be lost by supervisors investigating the cause of the accident and reporting, arranging for continued production, training new employees, providing for inefficiencies of the new employee and that of the injured man when he returns.

The Corporation as a whole lost 571 working days and 3,264 production man hours in 1956.

Sandia Corporation's best safe-(See ACCIDENTS, page three)

Non-Explosive Tests Use Flares For Night Photos

First use of Sandia Corporation's Tonopah Ballistics Range was made Feb. 8. The range, which is southeast of Tonopah, Nev., was used for practice and instrument-checking operations.

Clem L. Rawlins, Jr., supervisor of the Tonopah Land Range Division for Sandia, was in charge. Various electronic equipment was calibrated during the day's operation which involved a B-47 and a B-36 from the 4925th Test Group (Atomic), Kirtland Air Force Base.

Instrumentation crews from Salton Sea Test Base, California, were at Tonopah for the operation. They will be present when other tests are conducted and will return to Salton Sea when operations are underway at that loca-

The Tonopah Range will be used periodically in the future for air drops of inert weapon shapes as part of the Sandia development program. The first of these operations will be sometime in Febru-

Some operations will be in daylight, but others will be at night when better photographic results are possible. Night operations will be accompanied by the use of high intensity flares. The ballistics tests do not involve explosives.

Employees Urged to Report Changes of Insurance Beneficiary

Sandia Corporation employees who have policies with the Group Life Insurance Plan are urged to report any change in the designated beneficiary to Employee Benefits Section, 3122-1, in Bldg. 829.

Remarriage, death of the original beneficiary or other reasons could make a change in the designated beneficiary desirable. The insurance claim can only be paid to the assigned beneficiary of the policy.

Policies in the Group Life Insurance Plan are issued without cost to all personnel employed by the Corporation for two years. The policy provides for a payment equal to six months base pay to be made to the beneficiary in the event of the employee's death. The amount of the coverage increases to nine months base pay upon completion of seven years service and then to a maximum of one year's salary after 10 years of

Minimum payment to a beneficiary is \$1000 and maximum is

Tech Directors Meet

The Board of Directors of the New Mexico Council of Technical and Scientific Societies will meet Monday, Mar. 4, in the Warehouse Building conference room, University of New Mexico. The meeting will start at 7:30 p.m.

Red Cross First Aid Classes Again To Enroll Employees and Families

Registration is open for seven Red Cross first aid classes scheduled to begin next week, Staff Training and Education Division, 3123, announces. Two courses are offered-standard first aid and advanced first aid. The standard course of 18 hours is completed in nine two-hour sessions. The advanced course is 12 hours completed in six two-hour sessions.

Classes will be taught in the Personnel Building 832 to allow employee's family members to at-

Schedule of classes is as follows: Standard course each Monday evening from 5:30 to 7:30 starting Feb. 25, completed Apr. 22.

Standard course each Monday and Thursday evenings from 7:30 to 9:30 starting Feb. 25, completed Mar. 25.

Standard course each Tuesday evening from 5:30 to 7:30 starting Feb. 26, completed Apr. 23.

Standard course each Tuesday evening from 7:30 to 9:30 starting Feb. 26, completed Apr. 23.

Standard course each Wednesday evening from 5:30 to 7:30 starting Feb. 27, completed Apr.

Advanced course each Wednesday evening from 7:30 to 9:30 starting Feb. 27, completed Apr. 3.

Standard course each Thursday evening from 5:30 to 7:30 starting Feb. 28, completed Apr. 25.

Anyone interested in taking any of the classes is urged to contact Orientation Section 3123-1, Bldg. 849, ext. 29238 for further information or registration blanks.



RAYPAC COMPUTER, nuclear blast wave predictor designed and built at Sandia Corporation, was an item of interest to more than 90 science students from Albuquerque high schools who toured some

of the laboratory facilities on Edison Day, Feb. 11. Demonstrating the computer to a group of students from Albuquerque and Valley High School is J. W. Reed, left, of the Full Scale Effects Division, 5111.



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Cherry Fellner, Don Graham, Assistant Editors Robert S. Gillespie, Editor



RETIREMENT GIFT-Albert Coulter, who retired from Sandia Corporation Dec. 31, was presented with this bust by a neighbor. Meticulously carved from hard wood, the work carries a remarkable likeness to the genial Mr. Coulter, who gladly served as a model.

Climbing Challenge

Shoemaker's Awl, a rugged pinnacle northwest of Grants, will be the climbing challenge of the New Mexico Mountain Club Sunday, Feb. 24. Dick Martindell, 1422, will lead the group on the two hour climb.

Addresses Cub Scout Banquet

LeMoyne Browning, 2711, made the welcoming address at a recent Cub Scout banquet held at the KAFB Officer's Club. The banquet was held in honor of the 47th anniversary of the Boy Scouts. The occasion also marked the issuing of a charter to Cub Pack 120. Mr. Browning is Cub Master of the pack and his son, Darrell, age 10, is a member.

New Home Owners

Bonifacio Lopez, 2711, was surprised recently when his sister-inlaw and friends arranged a housewarming for his new home at 9609 Mather NE.

I. D. Hamilton, 5254, recently moved into a new home at 1512 Ridgecrest SE.

Homer Baldwin, 3211, and Ilva Baldwin, 7225-5, moved this week into their new home at 3209 Marquette NE.

Convalescing

H. H. Brueggeman, supervisor of Systems Division A of Manufacturing Engineering Systems Department, 2520, is convalescing at his home after being hospitalized for two weeks.



SKI PARTY members L to R John Weydert, Warren Curry and Bill Walker, all 5140, take time out from serious skiing for laughs at the ski run in Aspen, Colo., where they spent a week recently.

Sandianotes . . .

Quick Thinking Sandian Saves Neighbor From Possible Death

Small Boy Sees Again

Technical Information Division, 7223 and Library Section 7221-1, have made it possible for a small boy to see again. They provided the child with the means to have a badly needed eye examination and glasses to correct the defect.

As a "thank you note" from the boy, the organizations received a huge hand-made valentine that expressed his gratitude in a heartwarming manner. The organizations plan to continue helping as many needy children as pos-

Celebrate 25th Anniversary

A surprise party and a "purse of silver" helped celebrate the 25th anniversary of Robert L. "Bob" and Helen Culley recently. Bob is Section Supervisor of 5213-1 and Helen is a nurse in 3162. The affair was held at the Fez Club and was presented by Mr. and Mrs. Al Gruer, 5210, Clyde J. Northrup, Max E. Ludeke and Ivan W. Marshall, all of 5213.

Song and Dance

"Hot Shah," a musical production of Temple Albert, will star Max Weber, 5121, as the comedy lead with Shirley Brint, wife of Hal Brint, 4114-2. Max plays a theatrical agent and Shirley a song and dance girl. Mrs. Helen Corney, wife of Martin Corney, 2532, has a supporting role. The show is scheduled Mar. 2-3 at 8:30 p.m. at Temple Albert. Tickets are available from Max.

Get Well Wishes

Best wishes for a quick recovery are extended Arthur R. Engquist, 1451, who has been confined to his home recently.

Mr. and Mrs. A. F. Randall

Lest old acquaintances and co-

workers be forgotten Carpentry

Section 2232-5 of the Packaging

Division holds a semi-annual party

honoring retired employees. On

Feb. 1, employees and wives of the

section gathered to honor Mr. and

Mrs. Frank Berning and Mr. and A F "Pop" Randall, Next

summer a family picnic is planned

Mr. Berning retired in 1955 and

Recently completing a mathe-

matics course covering algebra,

geometry and trigonometry were

Owen Lockwood, Herbert O. Howe and Delfin O. Salazar, all of 2711.

The course was given at Albuquer-

Mr. and Mrs. Don Morrison,

Two Sandians in Organization

2543-1 recently celebrated their re-

spective anniversary dates marking

35 years of marriage. Mr. and Mrs.

A. W. Miller observed their 35th

anniversary on Feb. 6 and Mr. and

Mrs. L. E. Foster on Jan. 19.

5126, celebrated their fourteenth

wedding anniversary on Feb. 17.

Celebrate 35th Anniversaries

Mr. Randall in May of the same

Auld Lang Syne

by the group.

Complete Math Course

que High School.

Wedding Anniversary

Quick thinking and fast action on the part of Joe J. Bradshaw, 1452, saved an Air Force captain's life recently. Capt. Ralph C. Raynolds had climbed a utility pole to disentangle a kite when he grabbed a "hot" wire he mistook for a

Joe was in the yard watching the kids fly their kites when he heard the Captain call out. He scrambled up the pole, broke the contact, and tried to catch Capt. Raynolds as he fell.

"His reflexes when the contact was broken flipped him out of my reach," Joe said. The Captain tried to land on his feet but he hit a small fence and broke his ankle in the 20 foot fall. He was reported in good condition at Sandia Base

"Joe saved his life," Mrs. Raynolds said. "Another few seconds and it would have been too late."

Back at Work

T . A. Sprink, 2480, back on full-time work schedule after recovering from his recent illness, spent last week in Albuquerque before resuming his duties at Salton

Bill Daly, 1261-1, has returned to work after a long absence due

Organization 2711 welcomes back Victor Gabaldon after being home recuperating from an extended ill-

Observe 20th Anniversary

Owen G. Lockwood, 2711, and his wife Edith, 7423, observed their 20th wedding anniversary yesterday with a celebration with their children—Barbara, 19, and her husband, Judith, 13, Nancy, 11, and Owen, Jr., 9.



Mr. and Mrs. Frank Berning

Wedding

St. Valentine's Day was chosen by Eleanor Brocksmith, 2333-3, for her wedding to Harry L. Chapman, disc-jockey and announcer



Mrs. Chapman

for radio station KQUE. After an out-of-town honeymoon trip the couple will be at home at 709 Indiana SE. Eleanor was feted with a personal shower on Feb. 18 by her co-workers in Procurement Service and Controlled Materials Division, 2333.

Congratulations

Mr. and Mrs. Noble Johnson, 3151-2, a son, Robert Bruce, on Feb. 9.

Mr. and Mrs. Donald Lewis, 2713-3, a son, David Robert, on

Mr. and Mrs. James Weber, 5132, a son, Thomas, on Feb. 6.

Mr. and Mrs. George Anderson, 5132, a daughter, Gail Louise, on Jan. 9.

Mr. and Mrs. Allen J. Brewster, Jr., 7411, a son, John Allen, on Feb. 13.

Sympathy

To Peggy Hagan, 7225-5, for the death of her father-in-law in Milwaukee, Wis., on Feb. 11.

To Ruth McAdams, 7225-5, for the death of her brother in Falls Church, Va., on Feb. 10.

To Francis E. Tomlinson, 7329-3, for the death of her mother in Boston, Mass., on Feb. 2.

To Anthony E. Astorga, 1611-1, for the death of his father-inlaw on Feb. 5.

To Gabriel Baca, 2352-1, for the death of his mother on Feb. 5.

Shares Astronomy Hobby

Dick Davis, 1452, has been sharing his hobby of the past 10 years, astronomy, by working with a group of Cub Scouts. He spoke on the subject to Cub Pack 389 recently at the Sombre Del Monte School.

Speaking of Reporters

This is another article in a series telling of the volunteer reporters who contribute to the Sandia Lab News.

most running into building 829 with a handful of news items about her co-workers in 2711 and usually also some ads for the Shopping Center.

She is Dorothy Evans, who has



Reporter Dorothy Evans interviews Clarence Canady, 2711.

Before each Sandia Lab News reported on activities in the south deadline a petite brunet comes al- end of building 894 for a year. There are more than 100 men and women in her "beat" and it keeps Dorothy on her toes just trying to remember all the names. But since she has been in 2711 since starting with Sandia six years ago, most of the faces are famil-

> Dorothy is originally from Chicago where she was an assembler at the Western Electric Archer Avenue Plant.

> Although her husband is currently staioned with the Army at Fort Belvoir, Va., he will be back in Albuquerque in August. Meanwhile, Dorothy keeps very busy.

One evening she attends a Red Cross First Aid Class, another she is a volunteer worker at the Sandia Base Library, still another she serves as a movie projectionist at the Veterans Administration Hospital. Ceramics classes at Albuquerque High School take up two more evenings a week. During the slack hours Dorothy is publicity chairman for Xi Chapter of Beta Sigma Phi sorority.



SAFETY TREND at Sandia Corporation is continuing. Dale S. Cone, Safety Division 3211, marks the Safety bulletin board with the number 69 representing 2,151,243 accident-free man hours worked by Sandia employees. The mark was reached yesterday, Feb. 20.

Continued from Page One

Accidents Hurt - Are Costly

ty record was set from Dec. 9, 1953 through Mar. 26, 1954 with 3,057,-441 accident - free man hours worked. Corporation employees worked 2,089,668 accident - free man hours from Oct. 22, 1955 through Jan. 3, 1956 which earned an Award of Merit from the U.S. Atomic Energy Commission. Sandia has never had a fatal acci-

Jones Appointed New Assistant to General Attorney



Arnold Jones

Recently assuming duties in the newly created position of Assistant to the General Attorney of Sandia Corporation is Arnold Jones. He will be assistant to Kimball Prince, 6000.

Arnold has been employed with Sandia Corporation the past 14 months in the Surveillance and Operations organization, 7321.

From 1947 through 1951 he was employed at Los Alamos with the Security Operations Division of the Atomic Energy Commission.

During World War II he rose from private to first lieutenant. He saw service with the Tenth Mountain Division, the Army's ski

Arnold attended Phillips-Andover Academy in Andover, Mass., graduating in 1929. He graduated from Yale University in 1933 with a BA degree in English and History. He received his LLB degree from Boston University Law School in 1937.

For four years he was in private law practice in Massachusetts until he entered the Army in 1942.

dent despite almost nine years of operations.

The present Corporation safety record is 53 days without a lost time accident. (This was the record of Feb. 5-The Corporation's safety trend is continuing and as of yesterday, Feb. 20, the record stands at 69 accident-free days or 2,151,243 man hours.-Ed.)

An enviable record of about 10,-000,000 man hours could be set with 200 accident-free working days. An enviable record in human suffering prevented.

What shall we do to have a safe operation?

Instill a continuing awareness of safety in each employee-a desire to work safely and not commit any unsafe practices that will endanger his own or his fellow employees' safety.

Know what to do to prevent accidents. Working safely and handling accident cases should be second nature with all employees. Supervisors have a great responsibility in achieving this goal.

Safety meetings of each section should be held once a month. Safety suggestions from employees should be encouraged at all times.

Each supervisor should be personally responsible for getting unsafe practices in his area corrected. Do not tolerate horseplay.

Safety Department, 3210, is available for advice and suggestions. Consult them if help is needed.

Housekeeping is an important adjunct to safety.

Be sure that a machine or process can be operated safely. If in your opinion it is not safe, do not authorize your employees to use it until it is deemed safe by the Engineers and Safety Department.

Too many back injuries have occurred. Make sure adequate handling equipment is available.

An injured man's mental attitude improves if he can get back to work quickly-even light temporary work.

Some people are accident prone due to a careless application of good safety practices. If an employee persists in working unsafely after being instructed on how to do a job, he should be moved to a job where he can work safely or disciplinary action should be taken.

where in this talk, for I strongly believe, as did H. L. Mencken, that "Good luck is a lazy man's estimate of a worker's success."

New X-Ray Technician Joins Medical Staff

Nelda Corbridge has joined Sandia Corporation Medical Department to be technician in charge of a new X-ray machine recently installed.

Miss Corbridge is a registered X-ray technician trained at the St. Alphonsus Hospital in Boise, Idaho. Her two year course included studies in anatomy, physics and techniques. She graduated from the school in September, 1956, and came to Albuquerque the next month to accept a position with the County Indian Hospital. She reported for work at the Corporation Feb. 1.

The new X-ray machine will speed up the work of the Clinical Division, 3162, according to Dr. Henry Louderbough. It is easier to operate and works faster, makes possible the taking of all X-rays on one machine, and eliminates a second filing system for negatives, as they are now all of one size.

Circuit Theory Group Meets at UNM Feb. 28

The Professional Group on Circuit Theory will meet at 8 p.m. Thursday, Feb. 28, in Rm. 217 of the Electrical Engineering Building, University of New Mexico. Dr. B. L. Basore, 1454, will discuss "Getting Into the Complex Plane."

Feb. 1 through 15

Welcome

Newcomers

From Albuquerque Robert C. Anderson

Edna S. Baca Gladio I. Baca Shirley T. Bander Charles D. Batsel Geraldine Becker Duane A. Benton Geraldine L. Biegel Mary L. Bisqupiak John A. Chifalo Nelda C. Corbridge Lorraine Craven Lyle T. Davis Robert B. Dick Ernest R. Dunaway Almon D. Fackrell Beulah F. Gallagher	7221
Gladio 1 Baca	2742
Chistory T. Dander	7005
Shirley I. bander	7225
Charles D. Batsel	2320
Geraldine Becker	2222
Duane A. Benton	7412
Geraldine L. Biegel	3123
Mary L. Bisqupiak	7226
John A. Chifalo	2462
Nelda C. Corbridge	3162
Lorraine Craven	2221
Lyle T Davis	2441
Debest P Diek	2401
Robert B. Dick	7412
Ernest R. Dunaway	7411
Almon D. Fackrell	7412
Beulah F. Gallagher	2133
Amos E. Griffith	2742
Diana M. Gurule	2532
Nancy S. Hagedorn	7225
Mary M. Hogrefe	7411
Vern B. Johnson	1451
Legate 1 Johnston	7005
Lorerra L. Johnston	1225
Sammy J. Keller	7412
Almon D. Fackrell Beulah F. Gallagher Amos E. Griffith Diana M. Gurule Nancy S. Hagedorn Mary M. Hogrefe Vern B. Johnson Loretta L. Johnston Sammy J. Keller Richard L. Kohlhaas Richard A. Lake Gomesindo Lopez	1411
Richard A. Lake	7412
Gomesindo Lopez	1831
Julian A. Lovato	7412
Margaret O. McMahan	2471
Herbert L. MacPherson	2742
Lela F. Martinez	7421
Albert S. Montano	7226
Melyyn S. Montano	7232
Joseph W. Morgan	2240
Barbara N. Morgan	2540
Use and M. Mosery	2003
Howard W. Nunez, Jr.	1012
M. Joyce Oatman	7225
Annalene Palmer	2731
Henry Passmore	2461
Pearl E. Payne	1831
Leroy R. Plumley	7412
Richard G. Roberts	7412
Lydia Sanchez	2464
Ralph E. Sanders	7242
Richard L. Kohlhass Richard A. Lake Gomesindo Lopez Julian A. Lovato Margaret O. McMahan Herbert L. MacPherson Lela F. Martinez Albert S. Montano Melvyn S. Montano Joseph W. Morgan Barbara N. Mosely Howard W. Nunez, Jr. M. Joyce Oatman Annalene Palmer Henry Passmore Pearl E. Payne Leroy R. Plumley Richard G. Roberts Lydia Sanchez Ralph E. Sanders Beatrix Schowers Charles A. Schulick Walter T. Taylor Madeline Thompson Betty L. Turman John S. Williams	2471
Charles A Schulick	7412
Walter T Taylor	1601
Madeline Thompson	0021
Madeline Inompson	2224
Betty L. Turman	/225
John S. Williams	7412
Clifford Wolfingbarger	2131
Betty J. Yochim	7225
Betty L. Turman John S. Williams Clifford Wolfingbarger Betty J. Yochim Alice E. Young	7411
Arizona	
Bobby O. Allen of Tucson	1441
Charles D. Scott of Phoenix	7412
California	
Bennett F. Baldwin, Jr. of San Diego	7411
Chandler C. Smith of Saratoga	1831
Bennett F. Baldwin, Jr. of San Diego Chandler C. Smith of Saratoga Walter W. Troy of San Francisco	2740
Florida	
Lawrence B. Smith of	
COTTONIO DI MIIIII OI	

John S. Williams Clifford Wolfingbarger Betty J. Yochim Alice E. Young	2131 7225
Arizona Bobby O. Allen of Tucson Charles D. Scott of Phoenix	
California Bennett F. Baldwin, Jr. of San Diego Chandler C. Smith of Saratoga Walter W. Troy of San Francisco	7411 1831
Florida Lawrence B. Smith of Fr. Walton Beach	5111
Georgia Edward M. Austin of Atlanta Illinois	2533
Lawrence J. O'Connell of Chicago	1441
John V. McMillin of Bloomfield	5233
Walter R. Jackson of Salina	
Marcel C. Reynolds of Lexington	1613
Richard E. Holladay of Shreveport	1413
Michigan Stanley D. Spray of Waldron Winford E. Watson of Detroit	1220 1216
Adolph R. Patzer of St. Paul	7211
Missouri Johnnie J. Lewallen of Columbia Robert E. Van Fleet of Independence	

New Jersey	
Michael G. Gregory of	
Pompton Lakes	1215
Joseph B. Meland of Haddenfield	
New Mexico	
John R. Ceika of Santa Fe	2511
Willard L. Hankins of Santa Fe	7412
Richard C. Kishbaugh of Los Alamos	7411
Domingo B. Martinez of Las Vegas	2419
Prisceilla B. Quintana of Santa Fe	2225

Marvin M. Plugge of Lincoln

New York Ralph J. Niebel of Baldwin
 Ohio
 Myron J. Vale of Cleveland
 2722

 Oklahoma
 Ronald K. Bump of Stillwater
 5523

 William P. Brooks of Enid
 5131

 J. Wayne Ellis of Norman
 5243

 John C. Hamilton of Webbers Falls 1413

 Pennsylvania
 Ralph T. McRae of Snowshoe
 7412

Luck has not been stressed any-Clyde C. Hughes of Longview Mathew J. Roach of Amarillo Richard B. Hosley of Stamford

Nebraska



DEMONSTRATING new X-ray machine recently installed in Medical Department, 3160, is Nelda Corbridge, new technician in the department. Dr. Henry Louderbough poses as patient being X-rayed.

Supervisory Appointments

MURIEL M. IVERSON to supervisor of Electronics Services Sec-5243-3

tion, Test Data Department. Muriel started working at Sandia a year

ago after three and one - half years in the Naval Air Special Weapons Facil-

ity at Kirtland AFB.

During the previous two and one-half years he was on regularly scheduled Naval air patrol missions over the China Sea. His total of 10 years in the Navy also included aircraft assembly and repair work during World War II.

Muriel attended Utah State Agricultural College and Dixie Junior College, St. George, Utah.

He is a member of IRE.

DANIEL J. YARBROUGH to manager Specifications Depart-

ment 7420, Drafting and Specifications organization.

Dan came to Sandia Corporation in March, 1951, and has been in stan-

dards work since that time working in the 1200, 1900, 5300, 1600 and 7400 organizations. His most recent assignment was as supervisor of the Material Standards Division, 7421.

Born in Mississippi, he received his high school education in Bethany, Okla., and graduated from Bethany-Peniel College there in 1941. He worked as a technician for Lake City Ordnance Plant in Independence, Mo., for a year and then was assistant chief chemist at the Douglas Aircraft plant in Oklahoma City until 1944.

Dan served in the Navy for two years on special assignment as inspector of Naval materiel. After the war he received a Bachelor of Science Degree from Edmond State Teachers College and then taught high school science for two years. For three years he was with the Boeing Aircraft Company as Chief of Standards and also served on the National Aircraft Standards Committee as Eastern Area chairman.

GEORGE L. FRENCH to supervisor of Section B I, Drafting Division B. 7412.

Georgehas been in drafting work at the Corporation for more than two years but he has a record of more than 20 years in the drafting field.

Prior to 1955 he worked six and one-half years as chief draftsman for Eidal Mnufacturing in Albu-

The previous two years before coming to New Mexico he was an official of a light manufacturing company in Batavia, Ill., which produced auto accessories and did general machine shop jobs.

George also worked in drafting for Batavia Metal Products, Interstate Aircraft in DeKalb, Ill., and seven years for Northern Illinois Coal Corp.

He attended Missouri School of Mines and Metallurgy.

HERBERT L. WEBSTER to supervisor of Environmental Stan-

dards Section. 1651-2, Physical Standards Division

"Herb" has been in Physical and Electrical Standards Department during his four years at Sandia.



Immediately prior to that he worked in missile development for nearly two years at Hughes Aircraft in Los Angeles.

During World War II Herb served five years in Army Ordnance in the United States and in the Pacific.

Herb was an assistant professor in mechanics at Iowa State College in Ames for five years and taught mathematics one year at South Dakota School of Mines in Rapid City.

He has an MS in Mechanics from Iowa State and a BS in Electrical Engineering from South Dakota State. He is a member of Phi Kappa Phi, honorary mathematic fraternity.

G. A. Fowler, 5000 Chairman, Institute of Radio Engineers



George Arnot, 1423 Chairman Professional Group on Microwave Theory And Techniques



Walter Brown 1454 Vice Chairman, Professional Circuit Theory



Antennas and Propagation

George Oltman,

1423

Chairman,

Group on

Professional



Stan McCammon President, Sandia Base Radio Club



Larry Snodgrass, 2543 President, New Mexico Council of Technical and Scientific Societies

Jim Lareau, 5221 President. Amateur Radio Caravan Club of New Mexico



Andrew J. Max, 5253 Chairman Professional Group on Remote Control



Robert S. Lemm 2130 Chairman, American Society For Motals



B. L. Basore, 1454 Chairman Professional On Information Theory



Neith Pollard. 1413 Chairman, American Institute of Electrical Engineers



Gene Newlin, Chairman Professional Group on **Nuclear Science**



Tom Dadian, 2713, Sr

Representative, American Welding Society

Fred Bentz, 2514, President,

American Institute of Industrial Engineers

Jack Reed, 5111 President, American Meteorological Society



Nick Sannella, 1422, Secretary, Instrumen Society of America



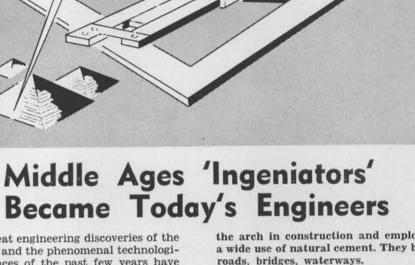
W. M. O'Neill, 5530, Vice President, American Ordnance Association



James C. O'Neal, 5511, Sr. Representative, Society for Non-Destructive Testing



Phillip H. Bircher, 5511, Chairman, American Soc Chairman, American Society For Quality Control



The great engineering discoveries of the past ages and the phenomenal technological advances of the past few years have brought mankind to the threshhold of a thrilling era.

Only a few years ago it was a supreme adventure to fly from New York to Paris. Today we are preparing to launch an earth satellite.

It was not long ago that scientists worried about depletion of the earth's resources of coal and oil. Today they are obtaining useful energy from a few pounds of uranium nestled deep in a reactor.

Once man feared famine would limit the world's population but today nuclear energy offers promise of opening vast regions of the earth to agriculture.

The 25 engineering societies represented on this page with pictures of members are but a few of the groups formed by engineers with mutual interests. Far from social organizations, these societies are dedicated to a future of progress.

Perhaps progress has been the watchword of engineers since the days of Archimedes back in 287 B.C. It must have been desire for progress that spurred on the engineers of an even earlier day.

Egyptian Engineers The ancient Egyptians no doubt had progress in mind during the Pyramid Age of 3000 to 2500 B.C. Egyptian builders were the first to use the lever, the inclined plane and the wedge. The decay of ancient Egypt may be attributed to a sudden drop in scientific curiosity on the part

of the people. The nation of Greece from 800 to 200 B.C. was a nation of shipbuilders and harbor builders. They also planned great cities and their water systems. Greeks were the first to master the science of tunnel digging. They were masters of mathematics and mechanics, but still Greece fell - they did not have the ability to weld their cities into one strong nation. They fell easy prey to invaders.

The Romans were the great builders from 350 B.C. to 476 A.D. They used the arch in construction and employed a wide use of natural cement. They built roads, bridges, waterways.

However, the Romans lacked inventive qualities, the sort of intellectual curiosity and imagination to complete their progress. The Roman empire collapsed.

Times of Strife

The Middle Ages from 476 A.D. to 1400 A.D. was a time of strife. Out of this violence came the engineering marvels of the engines of war - battering rams. catapults, and the ballista, a sort of outsized crossbow

At this time the word "ingenium" came into being and by 1200 the man who created these implements of war was known as an "ingeniator." This was the origin of our modern term, 'engineer."

Ingeniators developed the cannon and gunpowder, the feudal system ended and man took a great step toward the release from the tyrrany of despots.

The Renaissance of 1400 to 1650 saw a development of a tremendous inventive interest. Italian engineers contributed segemental and elliptical arches, they designed canals and perfected dome construction. Names of such as Galileo (1564-1642) and Copernicus (1472-1543) are still remembered. Galileo determined the place of the earth in the solar system and Copernicus pioneered astronomical science.

These discoveries lead to the combination of science and engineering and the modern day engineer was born.

To the engineer of the 20th century has again fallen the job of keeping man free from tyranny. As in 1400 when the feudal lords were displaced through the philosophy of "freedom through strength" engineers of today are protecting the people of the free world from a violence, slavery and oppression which surpasses even the cruel system of the Middle Ages.

National Engineering Week points to these men and women of today who have so much to do in forming our world of



Irvin W. Lenz, 5221, Chairman Society of Photographic Instrumentation Engineers



John McKiernan, 1283, Chairman, American Society Of Mechanical Engineers



A. B. Metzger, 3210, National Director, New Mexico Society Of Professional Engineers



Hubert R. Hanen, 2532, Chairman, American Society Of Tool Engineers



SECURITY CHECK-Charles Farmer, 2742, checks the identity tag of leader dog Kelly. Kelly escorts Berenice Henry to work in Publication Section, 2464-1, and is her constant companion.

Kelly's Tech Tag Inspection Has **Become Matter of Security Routine**

Nobody, but nobody gets into Sandia Corporation technical area without a proper pass. And that goes for Kelly, leader dog for Berenice Henry who works in Publications Section 2464-1.

Kelly, who escorts Berenice to work each morning, wears on his collar a unique identification tag. It's a very official looking job. Kelly's picture is laminated between two pieces of plastic and his name and that of his mistress are included.

Kelly and the security inspectors have a ritual. They check Berenice's badge, shake hands with Kelly and take a look at his tag. Kelly goes in with Berenice and security is maintained.

Yes, nobody, but nobody . . .

Service Awards

TEN YEAR PINS



Harold J. Trautman 2571 Feb. 26

Richard C. Clifton 2220 March 3



Dewey L. Cochran



Burke C. Duff March 3

FIVE YEAR PINS

Fib. 22-28

Margaret P. Ramirez 7413, Thomas W. Moody
1452, Richard S. Jacobson 1613, William B.
Minser 2151, Henry J. Przystas 2331, E. H.
Baber, Jr. 2151, Thomas B. Heaphy 7223, John
D. Grenko 7422, Juan B. Pedroncilli 2231, John
G. Peterson, Jr. 2232.

Walter L. Kurlfink 2151, Josephine D. Lobato
2462, Calimero J. Lucci 2410, Elmer White
1612, Julian C. Baca 7232, Blanche O. Evans
7225, Robert J. Brown, Jr. 1241, Jay A. Andrews 2711, Donato R. Lovato 2353, Holf Gay,
Jr. 1243, Felix C. Almaraz 7224, Henry C.
Baisdon 2111, and Dennis R. Benedict 2353.

March 1-7

Baisdon 2111, and Dennis R. Benedict 2353.

March 1-7

Dale A. Young 5121, John W. Pearce 1610, Eugene K. Baker 7230, Ernest H. Bowman 1472, Alfred V. Engel 1222, Loyt L. Lathrop 5213, Patrick F. Proulx 1652, Andrew P. Coar 2713, Glen F. McFall 2723.

M. J. McLaughlin 2232, O. B. Trujeque 2417, Maurice V. Gowdey 7123, Carmon C. Paschal 2151, Arthur R. Verardo 7232, Wallace R. Green 1215, Evaristo I. Alvarez 2351.

F. J. Gallapher 7322, Eralia A. Carleton 7122, Robert C. Jaramillo 2122, Alton L. Anderson 1421, G. B. Stephens 7225, and Lorenzo Lopez 2721.

TWO YEAR CERTIFICATES

Feb. 22-28 Robert L. Hannigan 7313, Floyd E. Lundy, Jr. 5241, David L. Poli 2532, Bette L. Mann 7225, L. Alton Meador 1442, Floyd L. Mc-Donald 2222, and William T. Owens 1613.

March 1-7
Theda P. Noe 2511, Lawrence L. Lodge 1462, Howard M. Stuart 7316, Donovan B. Browning 1472, Mary M. Verardo 7225, Rita C. Chavez 2333, Robert M. Seavey 1423, John A. Barden 1214, Nora B. Byrd 7225, and Shirley J. Hicks 7225.

Symphony Ball At Coronado Club Friday, Mar. 1

Annual ball of the Albuquerque Civic Symphony will be held Friday, Mar. 1, in the Coronado Club. Kimball Prince, 6000, is chairman of the event which marks the 25th anniversary of the orchestra. Dancing is scheduled from 9 p.m. to 1 a.m.

Arrangements to use the Coronado Club were made through the club's Board of Directors. About 600 guests are expected to attend the affair.

Howard T. Stump, 3152, is president of the Symphony Board of Directors and his wife is president of the Symphony Women's Asso-

Tickets to the ball are available from members of the orchestra or from committee members.

Basketball League Play Resuming in Public School Gyms

League play in the Sandia Employees Basketball Association this week went into a new schedule with games held in gym space provided by the Albuquerque Public Schools.

The Old Base Gymnasium is no longer available as it is being removed to make room for a new military cafeteria.

Under the new schedule, now posted on the bulletin boards, the league should complete all play by Mar. 15. Top games scheduled in the next two weeks are between unbeaten team 2400-I and 5200, beaten only once. The game is scheduled Wednesday, Feb. 27, at Valley High School.

On Monday, Mar. 4, 2400-I will meet 7400, also beaten only once. This game is scheduled at 9 p.m. at Highland High. Any Sandia Corporation employee and family is invited to attend any game of the basketball league. There is no admission charge.

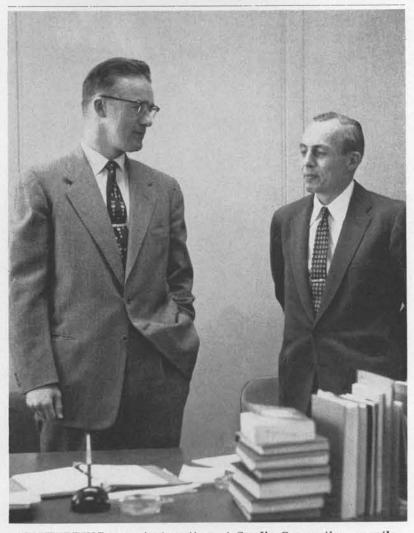
T. G. Kinsley Speaks At Rutgers This Week

Thomas G. Kinsley, 1464-2, is in New Brunswick, N. J., this week presenting a technical paper at a Piezoelectric Ceramic conference at Rutgers University. The title of the paper is "Some of the Things That Are Known and Some That Should Be Known About Piezoelectric Ceramic.'

The paper grew out of studies made for Sandia Corporation by Mr. Kinsley as a section supervisor in the Piezoelectric Device Development Division, 1464.



PLANNING ANNUAL BALL of the Albuquerque Civic Symphony scheduled at the Coronado Club Friday, Mar. 1 are (L to R) C. E. Runyan, 2120, assistant publicity chairman; Howard Stump, 3152, president of the Symphony Board of Directors; Kimball Prince, 6000, chairman of Ball; and Mrs. Howard Stump, president of the Women's Association of the Albuquerque Civic Symphony.



CONFERRING on patent matters at Sandia Corporation recently was Norval S. Ewing, right, General Patent Attorney, Western Electric Company. He is talking with Robert M. Betz, Patent Manager, 6010. He also conferred with Kimball Prince, 6000.

SHOPPING CENTER

CLASSIFIED **ADVERTISING**

Deadline: Friday noon prior to week of publication.

RULES

- 1. Limit: 20 words
- 2. One ad per issue per person 3. Must be submitted in writing
- 4. Use home telephone numbers
- 5. For Sandia Corporation and AEC employees only
- 6. No commercial ads, please

Next Deadline: Noon, Mar. 1.

FOR SALE

OVERSTUFFED CHAIR, \$15; youth bed, maple finish, \$15; hockey skates, size 8. \$4. Bothell, Alb. 9-0031.

AMERICANA ENCYCLOPEDIA, set of 30 volumes, \$60. Neuhaus, Alb. 8-1444. 30 ACRES LAND, 5 room house, 2 garages 20x40. Seferino Sanchez, Belen 4-8816; Rt. 2, Box 618, Los Lunas, N.M. ANO, Monarch, small upright, (made by Baldwin). Tyson, 1229 Columbia Dr. E, Alb. 5-9093 before 10 a.m.

*49 CHEVROLET, clean, 2 door deluxe. Montano, 829 San Andres NW, Alb. 4-3797.

'49 CHEVROLET, styleline 4 dr., nylon tires, good brakes & engine; being sold by original owner, \$300. Wilson, Ext. 42242.

REFRIGERATOR, 7 cu. ft., \$85. Gas range, \$45. Reynolds, Alb. 9-4802. DINNETTE SET, maple finish, board and table pads included, \$40. Maginnis, Alb. 9-0068 after 5:30 p.m.

IRONER, GE DELUXE, \$75. Ollman, 9601 Arvada NE, Alb. 9-4113. '55 FORD, V8 4 door station wagon. Car-penter, Alb. 9-3519.

'53 OLDSMOBILE, super 88 hardtop, RHH, many extras, recent tuneup, brakes, many extras, recent tuneup, brakes, shocks, \$1350, original owner. Stark, Alb. 6-8674 evenings.

'50 STUDEBAKER, champion, tudor, over-drive, climatizer, \$150. Maak, Ext. 42250.

DINING TABLE, drop-leaf, mahogany, with pad, \$20. H&R, 410, handy gun, \$35 or trade for .38 special. Lane, Alb. 9-3962. TUBELESS TIRES, 4 double eagle nylon, 8:20x15. Perry, Alb. 3-3649.

UMBRELLA TENT, 9'x9'. Waldorf, Alb.

2-8303.

3 BR. HOME, den, 13/4 baths, attached garage, drapes, carpeting, stove, land-scaped, sprinklers, patio, walls, 6'x8' play-house. Jercinovic, Alb. 5-8027.

DIVAN, makes bed, storage space, with matching chair, clean, good construction, wine color, \$85. Maxim, 404 Texas St. SE.

12 FT. WEEPING WILLOW, \$7; new Jumbo 16-garment bag, \$2.50; misc. plumbing connections, highest offer. Ozmun, Alb. 5-2119 or 6-8312.

'50 G.M.C. PICKUP, R&H; L.W.B., Dir. Sig., 2 spares, bows, tarp new paint, recent valve job, \$550. Pliner, Alb. 6-1907. SORREL MARE, small, spirited, quick turning makes acad barrel area barrel, processors. ing, make good barrel race horse, needs riding. Offill, Ext. 23144. Bosque Farms, Los Lunas. Townsend 59830 after 6 p.m.

Los Lunds. Townsend 59830 arter 6 p.m.
TELEVISION, 16" G. E. w/wrought iron stand, \$50. Ciroflex camera w/flash, \$30. Mills, 8027 Princess Jeanne NE, Alb. 9–2130 after 5.

TRIPLETT TUBE CHECKER, No. 3413-A, \$45; Precision-E-200-C, signal generator, \$40; Electronic designs, V.T.V.M., \$32.50. Bullhorse, 1017 Virgina St. NE, Alb., 6-5995.

Alb. 6-5995.

PARKLAND HILLS HOME, 614 Madison SE, 2 bedrooms, carpeted living-dining room, attached garage, air-conditioned, walled yard, fully landscaped, \$11,900. Mecklenburg, Alb. 4-6793.

DRESSING TABLE w/mirror top, plate glass mirror, \$15; automatic washing machine, \$60. Hunter, 2315 Hendola Dr. NE, Alb. 9-1089.

MOTORCYCLE, '54 Indian Brave, 250cc-12 hp., \$200. Rappleyea, Alb. 6-6603 after 4. BAKER DINING ROOM SET; bedroom suite; maple dining room set; 3 pc. sectional; desk w/chdir; television chair. Barnes, Alb. 2-9317.

'55 CHEVROLET STATION WAGON, radio, heater, overdrive, 22,000 miles, \$1650.

TIRES, three 7:60-15, \$8 for all 3. Good casings and some tread. Gay, 1845 Georgia St. NE, Alb. 5-0402.

BR. HOME, near bases, 1608 Gerald SE, \$4,750, down payment \$985. SE, \$4,750, down payment \$985. Monthly payments, \$49. Chavez, Alb.

WASHING MACHINE, Sears automatic, bolt down type, \$20. Cole, 645 San Pablo SE, after 5:30, Ext. 31160.

RABBITS, 4 does and young, one buck and hutches, \$20. Kovaschetz, 305 Nara Visa NW, Alb. 4-6368.

BEAGLE, male, beautifully marked, regis-tered papers, shots, 5 months old, '57 license, dog house, \$35. Pilat, Alb. 6-9376. HOUSE TRAILER, 31 ft. 1956 Model Great Lakes. Melvin, Sandia Base, Ext. 25277. AIR-LIFT OVERLOADS, w/original warranty, used once. For '48-'54 Hudson, \$16.50. Meahl, 5808 Arville Ave. NE, Alb. 5-0674.

ELKHART CORNET, two mutes, case, \$35. Nielsen, Alb. 5-6497. DODGE CARRYALL, 4-wheel drive, sleeps two, mechanically perfect, new carbu-retor, battery, generator and front dif-ferential and good spare. Gallagher, Alb.

6-3981. CUSTOM DRAPES, 2 pairs, lined, burgundy, 111"x89". Strauf, Alb. 2-9562.

GIRLS BICYCLE, 26", make offer. Chap-man, Alb. 8-1210. '41 CHEVROLET, 2 door sedan, good rubber, truck engine, \$125. Kunz, Ext. 26143.

LARGE AQUARIUM, high capacity air pump, two filters, tubing, gravel, etc. Priced reasonably. Mitchell, Ext. 35297. WEIMARANER, registered, bred from cham-pion stock, 2 years old, male. Eligner, Alb. 4-6738.

GAS DRYER (Kenmore, 9 lbs.), dinette set table & 4 chairs, lamp. Harlan, 3037-33rd Place, Sandia Base, Ext. 36287.

'51 FORD CONVERTIBLE, 56,000 miles, original owner, \$450; folding accordion door, 8'x8', \$50; portable kerosene cabin heater, \$45. Shunny, Alb. 9-2787.

RCA 45 TURNTABLE, \$5; 34 roll-away bed w/mattress, \$15 or trade for 26 in. girls bicycle. Odell, Alb. 2-8727.

WASHER Bendix automatic, \$50. Hickey.

WASHER, Bendix automatic, \$50. Hickey, 2133 Utah NE, Alb. 9-5771.

PIANO, upright, Mirra-piano stool. Needs tuning, \$125. Mahboub, 626 Charleston NE, Alb. 6-5721.

'52 STUDEBAKER COMMANDER, \$595 or will take trade, RHO. Polnaszek, Alb. '56 15-FT. BELLWOOD TRAILER, custom

built Traveler, sleeps 5, refrigerator, stove, 6 or 12 volt lights, butane, \$975. Morris, Alb. 5-8122.

CHAIR COMMODE for sick person, \$20; Kenmore button holer, \$6. Stauffer, Alb.

P-3224.

DUNCAN PHYFE DINING SUITE, 6 chairs, buffet, china cabinet, table w/extra leaves, pad, \$50; double bed, chest drawers, desk, \$35; dinette table, 36x60, plate glass top, 4 chairs, \$35. Peirce, Alb. 9-0581.

FOR RENT

2 BR. APARTMENT, 3 blocks N of Central, modern; 4 room furnished house, clean, 428 Texas SE, \$65. Newman, Alb.

FURNISHED APARTMENT, small, for 1 or 2 people, available March 1. Carroll, Alb. 5-5829 after 4 p.m.

2 BR .HOUSE, gas range furnished, reasonable. Astorga, Alb. 4-2844.

TO LEASE: 2 BR. HOUSE w/garage, carpeting, venetian blinds, awnings, sprinklers, air-conditioning, walled, \$85 per mo. Available April 1. Wiesch, Alb. 6-7236. WANTED

TO RENT OR LEASE for 1 year, unfurnished 2 bedroom house w/fireplace—in vicinity of North or South Highway 10. Mercer, Alb. 5-0380.

GARAGE DOOR, single car, complete with overhead hardware. Silva, 1720 Wilmoore Dr. SE, Alb. 3-0191.

DEEP FREEZE, 20-22 cu. ft.; refrigerator, 10 cu. ft. Must be bargain for cash. Cully, Alb. 5-9378.

TO TRADE 1950 4-door Chysler Royal for \$150 or TV set. Stearns, 3225-K 34th St., Sandia Base. Ext. 52277 after 5 p.m. WOMAN TO CARE for child in three mornings a week. Gross, 705 Cagua, Alb. 5-7327.

CARE FOR CHILDREN from 3 to 5 years of age in my NE Height home. Williams, Alb. 8-0077.

TO RENT TAPE RECORDER for one or two months. Lane, Alb. 9-0449 after 5 p.m.
TABLE MODEL RADIO, 5 or 6 tube, need not be in operating condition. Alb. 9-4460.

45-70 SHOOTERS interested in an informal shoot. Contact Corney, 2909 La Veta Dr. NE, Alb. 5-1490.

Dr. NE, Alb. 5-1490.

TO TRADE large brick home for small house clear, or \$5,000 cash minimum trade equities; 3 bedroom, 13/4 baths, huge den. Daniel, Alb. 5-6484.

OUTDOOR GYM SET w/slide and double glider. Stinnett, Sandia Ext. 25172. BUNK BEDS, used, wooden. Stromberg, Alb. 5-6131.

LOST AND FOUND

LOST—Earring, garnet; earring, Japonese black & silver; earring, black w/white stones; earring, pr. turquoise; keys, auto; keys, Ford in leather holder; gloves, gray leather; pen, Hallmark, silver; watch, Gruen; pin, black crown w/rhinestones; glove, buckskin; sunglasses, brown frame; bow tie, maroon & gray; scarf, white w/tan print; rings, wedding & engagement; sunglasses, clip-on; glasses, plastic frame. Lost and Found, Ext. 26149.

FOUND—Earrings. copper & turquoise:

FOUND—Earrings, copper & turquoise; earrings, copper, teepee; earrings, copper, teepee; earrings, turquoise & silver triangle; keys, 3 GM & luggage on chain; key, 1 auto; keys, on chain; keys, GM, Lic. 24212 brn. holder; nail clipper, w/11c; shirt, maroon wool; pen, Waterman's blk. & silver; tie clasp, gold head w/arrow; watch, lady's; scarf, flowered; coat, yellow lady's suit. Lost and Found, Ext. 26149.

"No Books - No Bang"

Prolific, Secretive -- Sandia's Publishers Row

EDITOR'S NOTE

This is the first of two articles telling of the men and women responsible for producing Sandia Corporation's military publications. The first article is about the writers of the manuals. The second will deal with the technical artists, photographers and graphic arts experts who produce the finished product.

Limited editions of some of the rarest books in existence are being issued daily by a little-known Sandia Corporation organization. These books, manuals, catalogues, revisions, retrofit orders and new editions issue daily in a steady stream from the Military Publications Department, 7120.

Classified "secret", these publications are carefully controlled and addressed to readers who supervise, maintain and operate nuclear weapons, from stockpile to target.

Engaged in this publications undertaking are manual writers, editors, typists, compositors, photographers, lithographers, and printers. Their product is nine different types of military manuals, each covering a limited phase of weapon or component operation and maintenance.

Many Sizes

They range from pamphlet size to volumes rivaling in number of pages a metropolitan telephone directory. For each weapon, and many of its components, there is printed an illustrated publication covering all the myriad parts that make up a weapon, from warhead down to lock washer.

Unlike the weapons themselves, these publications, from raw material to bound edition, are uniquely a Sandia enterprise. They are the how-to-do-it manuals on every nuclear weapon's system, reaffirming perhaps, in this highly technical era, the pen is still as mighty as the sword.

It all boils down to this: No books, no bang!

Department 7120 prepares these hundreds of publications bound in uniform format that go with the weapons. Writers in the department are in a unique position to gather strands of all of Sandia's broad operations. They are in close touch too with the end usersthe military and the Atomic Energy Commission.

The soldier, the sailor, the flier,

all of those who handle the weapons at any stage after production, accept and swear by these books

Manual Writers

which help them along the intri-

cate paths of nuclear weapons

knowledge.

Within the Military Publications Department are two divisions staffed with the men who write the manuals. There is also one other division which prepares the writing for publication.

In Division 7123 are three sections, the newest being headed by Frank Barnett, oldtime weaponeer and author. Frank's specialty is maintenance manuals, field retrofit orders and publications which keep pace with engineering improvements and refinements in modernizing stockpiled weapons.

Writers in the other two sections prepare manuals on assembly, tests, storage and other information of value to the military's staff and planning agencies.

Division 7122 handles the tremendous detail of catalogue production - listing, descriptions, illustrations, instructions concerning the myriads of nuclear weapons parts.

Sections in this division are headed by Earle George, president of the Albuquerque Chapter, Society of Technical Writers, and Jack Palmer.

The preparation of rough drafts and final copy, composition and makeup for camera and printing is in the hands of Section 7121-1, headed by Art Lites.

Mechanical marvels speed production for this section. Electric typewriters operate from a master tape and turn out reams of flawless copy untouched by human

There is also "the shirt presser", nickname for the Thermofax machine, a thermal process duplicator operating on a heat and roller principle, that can copy any page-size document in two seconds. This device speeds preparation of manuscripts by permitting rapid reproduction of paste-up pages rather than awaiting clean typewritten copy.

Most of the manuals and catalogues are blue covered books with looseleaf bindings so that a replacement can be easily substituted. Thus rapid engineering developments do not render a new edition obsolete shortly after printing.

Manuals are color coded and occasionally 7120 publishes a red edition (top secret), a yellow (confidential) and, more frequently, gray (unclassified).

These authors are generally unsung, certainly not widely read and their manual writings will never be Book-of-the-Month selections.

But no other authors can boast more careful reading audiences and few publications have more meticulous authors than those found in Sandia's "publishers

R. C. Spence Speaks Before Students on Recruiting Trip

Robert C. Spence, supervisor of the Digital Systems Division, 5222,

will present a entitled "Electronic Instrumentat i o n in Atomic Bomb Develop m e n t" during a twoweek college recruiting trip in the states of Washington and Idaho.



R. C. Spence

Mr. Spence presented the talk at the University of Washington in Seattle on Feb. 20, on Feb. 26 he will be at the State College of Washington, Pullman, and at the University of Idaho, Moscow, Idaho, on Feb. 27. He will return to Albuquerque March 2.

The talk describes the various methods of field instrumentation used in measuring the aerodynamic and internal component performance of prototype weapons.

Mr. Spence joined Sandia eight and one-half years ago, coming here from the Naval Ordnance Test Station at China Lake, California, where he spent two and one-half years as a design engineer in the field of ground radar instrumentation.



READYING COPY for reproduction, using a tape-operated typewriter, is Mildred Hinds. Art Lites, supervisor of the Composition Section, 7121-1, observes operation of the machine.

Radio Club Make Plans For Field Day Activities

Plans for 1957 Field Day activities will be discussed by the Sandia Base Radio Club at a meeting Monday, Feb. 25, Reuben Barwick, 4112, secretary, announces. The meeting will be held at 8 p.m. in Bldg. T-319 on Sandia

Tech Photogs Elect Temporary Officers

Temporary officers were elected and committees appointed recently for the newly organized Albuquerque Chapter of the Society of Photographic Instrumentation Engineers.

Irvin W. Lenz, 5221, was elected chairman and Henry G. Sweeney, 5216-2, secretary. Paul Travis, 5221-1, was appointed to head the By-Laws committee and B. C. Benjamin, 5216, Program commit-

The new group invites anyone with an interest in technical photography and optical instrumentation to contact either Lenz or Sweeney for membership information. Purpose of the Society is to promote the exchange of information and the advancement of knowledge in the science of photographic and optical instrumentation as a service to industry.

Argonne M.D. Speaks To Mar. 1 Colloquium

"Clinical Aspects of Radiation Exposure" will be the title of a talk by Dr. Robert Hasterlik, M.D., Argonne Cancer Research Hospital, to be presented to the Sandia Corporation Research Colloquium Friday. Mar. 1.

The Colloquium will meet in the basement conference room of Bldg. 802 at 9:30 a.m. Tickets are required for admission, Craig Hudson, Colloquium committee, re-

AIEE Members to Hear Rex Tynes Speak This Evening

WRITERS in Sandia's "publishers row" play an important part in

the atomic weapons program. Their writings go to the soldier, the

sailor, the flyer, the AEC civilian-in fact anyone who handles

atomic weapons after production. Reading clockwise, left to right,

are: Robert O. Morrow, John S. Cowan, Richard C. Angell, Eldred

C. Riggin, G. J. Hurley (supervisor of Publications Division II),

Maurice V. Gowdey, Justin Heineman and John M. Stuckey.

The Northern New Mexico Section of the American Institute of Electrical Engineers will meet tonight at 7:30 p.m. in Rm. 201 of the Electrical Engineering Building, University of New Mexico.

"Derivation of Means of Calculating Conductor Sag" will be the subject discussed by Rex Tynes, Albuquerque Engineering Consult-

A movie "The American Engineer" will also be shown in honor of National Engineers' Week, Jack Barber, 1611, secretary, reports.

A. F. Hurford Represents Sandia Corporation at **Electron Tube Meeting**

A. F. Hurford, 1451-1, Electronic Component Development Department, recently participated in a meeting on electron tubes with members of the Aircraft Industries Association and Department of Defense. The meeting, held in San Diego, Calif., Feb. 13 and 14, was concerned with improvement in electron tube reliability for weapons and missiles.

He was a member of the Electron Tube Subcommittee representing Sandia Corporation.

L. I. Ratliff to Retire March 1

Lawrence I. Ratliff will retire March 1 after more than five and one - half years



He is a machine operator in organization

came to New Mexico seven ago from

Texas which Lawrence still maintains is the "best and biggest"

However, after retirement he and his wife will travel to Arkansas and Oklahoma for a combination business-pleasure trip.

Lawrence says he expects Mrs. Ratliff will keep him busy "painting and fixing things" around their home at 3115 Draxton. S.W.

Patent Issued to Howard F. Devaney

A patent in the name of Howard F. Devaney, 1472, has been issued the U.S. Atomic Energy Commission. Gene Newlin. Office of the Patent Manager, 6010, announces.

The name of the device is "Combination of Acceleration Sensing and Integrating Means" and was invented while Mr. Devaney was working in Engineering Department 1220.

He came to work at Sandia in 1948 right after graduation from Texas A&M. He holds a BS degree in mechanical engineering and is taking graduate work at the University of New Mexico.



12-MONTHS WORK is represented in this stack of manuals steadied by G. C. Hollowwa, manager of Military Publications Department, 7120. The rough copy and early drafts which preceded the finished copy for these approximately 150 publications would build up many times the height shown here. Rough drafts, art work, revisions and additions take long hours of work before the text illustrations are finally approved for publication.